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DRIVER ADAPTIVE COLLISION WARNING SYSTEM

ABSTRACT OF THE DISCLOSURE

The present invention involves methods and systems for issuing a collision warning to a driver at timing based on the driver's attitude level. The methods involve the steps of determining the driver attitude level based on the driver's actions in a plurality of driving conditions, determining timing for issuing warning based on the driver attitude level, and issuing warning based on the determined timing. The systems include a first device for collecting data associated with driver attitude, and a second device connected to the first device for determining a driver attitude level. The second device includes a processor for processing the data by applying pre-determined algorithm to determine the driver attitude level. The systems may further include a third device connected to the second device for determining timing for issuing warning corresponding to the driver attitude level, and issuing a warning according to the determined timing. Alternatively or additionally, the third device may include a software for enabling a determination of the rate of change in terms of acceleration and deceleration, and a control for affecting the rate of change. Further, the third device may include a software for enabling a determination of a safety distance and a distance control.